## FIGURE 1A

#### CHIR 12.12 light chain:

leader;

MALPAQLLGLLMLWVEGSSG

variable:

DIVMTQEPLELTVTPGEPASISCRSSQSLLYSNGYNYLDWYLQKPGQSPQVL;SLGSNRASG VPDRFSGSGSGTDFTLKIBRVEAEDVGVYYCMQARQTPFTFGFGTKVDIR

constant:

rtvaapsvfifppsdeqlksgtasvvcllnnfydreakvqwkvdnalqsgnsqesvteqdsk Dstyslsstltlskadyekhkvyacevthqglsspytksfnrgec

# FIGURE 18

# CHIR-12.12 heavy chain:

leader

MEFGLEWVFLVAILRGVQC

variable:

QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYGMHWVRQAPGKGLEWVAVISYEESNRYHAD SVKGRFTISRDNSKITLYLQMNSLRTEDTAVYYCARDGGIAAPGPDYWGQGTLVTVSS

#### constant:

ASTKOPSVPPLAPASKSTSGGTAALGCLVKDYFPEPVTVSWNSGALTSGVHTFPAVLQSSGL VSLSSVVTVPSSSLGTQTYICNVNHKPSNTKVDKRVEPKSCDKTHTCPPCPAPELLGGPSVF LFPPKPKDTLMISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPRESQYNSTYRVV SVLTVLHQDWLNGKEYKCKVSNKALPAFIEKTISKAKGQPRBPQVYTLPPSREEMTKNQVSL TCLVKGFYPSDIAVEWESNGQPENNYKTTPPVLDSDGSPFLYSKLTVDKSRWQQGNVFSCSV MHEALHNHYTQKSLSLSPGK

# alternative constant region:

ABTKGPSVPPLAPSKETSGGTAALGCLVKDYFPEPVTVSWNBGALTSGVHTFPAVLQSSGL YSLSSVVTVPSSSLGTQTYICNVNHKPBNTKVDKRVEPKSODKTHTCPPCPAPELLGGPSVF LFPPKPKDTLMISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYNSTYRVV SVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSL TCLVKGFYPSDIAVEWESNGQPENNYKTTPPVLDSDGSFFLYSKLTVDKSRWQQGNVFSCSV MHEALHNHYTQKSLSLSPGK

### FIGURE 2A

DNA sequence of light chain of CHIR-12.12:

Bagabigitak3,

## FIGURE 2B

DNA sequence of heavy chain of CHIR-12.12 (including introns):

5'alggagttlyggctgagotgggtlllocttgtlyotattltaayaggtytecagtgtcaggtgcagttggtggagtotgggggaggogt ggleongcolgggagglccctgagactctcclglgcagcclctggattcacctcagtagctatggcatgcactgggtccgccaggetc caggeaagggctggaglggggggcagliafatoatatgaggaaaglaatagataccatgeagactccgtgaagggcogaflcacca lciccagagucaaticcaagateaegetgtaleigeaaatguacageetcagaaetgaggacueggetgtgtaltaetgigegagagat ggggfalagcagcacclgggcolgactactggggcagggaaccclggtcaccglotootoagcaaglaccaagggccatccgt citecccetggcyccegetagcaagaycacctelgyggcoacageggcctgggctycelgyteanggactacitecccgaaccgg tgacuateteulgaacteaggogocetgaceageggogtgeaeacettcceggetglectacagtculcaggaetotactecoloag ongogiggigacogigocolconycagettyygeaccengacetacatelgeaacylgaateacaugecengouaeaccanggtgg acaa Raga gitggigagaggcuagcacagggagggagggiglolyclggaagccaggctcagcgctccigcoiggaogcnicccg getalycagiccugiccagycageaaggeaggeecgictgccictteaecoggagyccictgecegoccaotonigeteagg <u>gagauggtotlorggottilocccaggelctgggcaugcaczguoluggtgcccctaaccouggocctgcacacaauugugcaugt</u> Referencestreetherenterencestreetherenterencestreetherenterencestreethe lcageteggueacetiotolooteeeugattooagiaaoloogatettetetelgeagageeeaaatetigtgaeaaaacteagaealge concogtgeecagglaageeageeeaggeetegeetecageteanggegggacaggtgeeetaggtageetgeuteeagggae aggeoooagcegggggugugaeaegleeacciccalciettecteageacotgaacicctggggggaeegleagtettectetteceec aaarcccaaggacaccctcalgoteloooggaccoclgaggtescatgeglgutggtggsecgtgagccacgaagaccclgaggtes ависивотейновідваонвовідний возначини в пробрамний в пробр Bateafic fice for the second field of the seco ссиісдадявинссатсіосаладосинаддідддассодіддукідодадциселелідунсададдосддетедессесс totgoccigngagigacogetgtaccuacetetylecetacagggcageccogugaaccacuggtgtacaccotgcococulocogg Rassosarfaccausarcanderestrates processes and selections and selections and selections and selections and selections are selected as a selection of the selecti 1gggcagccggugaacaacaacaacgcclcccgtgclggactccgacggctccttcltccictatagcaugctcaccgtggac angagenggtgycagenggygaacgtettetealgeteegtgatgeatgaggetelgeacaaceaolaeaogeagaagaolelee ctglclccgggtanatga3'

# FIGURE 3A

#### CHIR-5.9 light chain:

leader:

MALLAOLLGLLMLWVPGSSG

variable:

AIVMTQPPL53FVTLGQPA618CR83Q8LVH3DGNTYLNWLQQRPGQPPRLLIYKFFRRL3G VPDRF8G3GAGTDFTLK15RVEAEDVGVYYCMQVTQFPHTFGQGTRLEIK

constant:

RTVAAPSVPIFPFBDEQLKBGTASVVCLLNNFYPREAKVQWKVDNALQBGNSQEBVTEQDBK DSTYSLSSTLTLSKADYEKHKVYACEVTHQGLBSPVTKBFNRGEC

## FIGURE 3B

## CHIR-5.9 heavy chain:

leader:

MGSTAILALLLAVLQGVCA

variable:

EVQLVQEGAEVKKPGESLKISCKGSGYSFTSYWIGWVRQMPGKGLEWMGIIYPGDSDTRYSP SFQGQVTISADKSISTAYLQWSSLKASDTAMYYCARGTAAGRDYYYYYGMDVWGQGTTVTVS S

constant:

ASTKGPSVPPLAPASKSTSGGTAALGCLVKDYFPEPVTVSWASGALTSGVHTFPAVLQSSGL YSLSSVVTVPSSSLGTQTYICAVNHKPSATKVDKRVEPKSCDKTHTCPPCPAPELLGGPSVF LFPPKPKDTLMISRTPEVTCVVVDVSHEDPMVKFMWYVDGVEVHNAKTKPRSEQYASTYRVV SVLTVLHQDWLAGKEYKCKVSAKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKAQVSL TCLVKGFYPSDIAVEWESAGQPENNYKTTPPVLDSDGSFFLYSKLTVDKSRWQQGNVFSCSV MHRALHNHYTQKSLSLSPGK

alternative constant region:

ASTKOPSVPPLAPSSKSTEGGTAALGCLVKDYFPEPVTVEWNBOALTSOVHTPPAVLQSSGL YSLSSVVTVPBBBLGTQTYICNVNHKPENTKVDKRVEPKSCDKTHTCPPCPAPELLGOPSVF LFPPKPKDTLMISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYNSTYRVV SVLTVLHQDWLNGKEYKCKVENKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSL TCLVKGFYPEDIAVEWESNGQPENNYKTTPPVLDSDGSFFLYSKLTVDKSRWQQGNVFSGSV MHEALHNHYTQKSLSLSPGK

### FIGURE 4A

### Coding sequence for short isoform of human CD40:

- 1 atygticgte tgeotelyca gtycgreete tgggyetget tgetgaeege tgleoateoa
- 61 ganceacca ctycatgeng agammacag inectanias scagleagily etgitettig
- 121 Igecageong guengaunet ggigagigae tgeneugagi tenetganue gguntgeett
- 181 cettgoggte anagoguatt cotugacace iggaacagag agucacactg conceageac
- 241 muntaciges accenacel agggettegg stoeagonga agggeacete agaaachgae
- 301 accatetycu ectylganga augotyycae tylnogagty aggeotytya gugetytylo
- 361 ciycaccycl catgologce oggottygy gteaugeaga tigetzeagy gyllicigat 421 accatelycy agecetycec agtegyelte ttetocaaty tytoatolyo titeyaaaaa
- 481 tgicacceli ggacunggio occaggalog gotgugagoo otggetggiga tocccatcal
- 541 cilcheente etettigeen (cotetteel getegleit nichaaning tegecanung
- 601 gocaaccaat aa

# FIGURE 4B

### Encoded short isoform of human CD40:

- I mvripiqevi wgolitavhp epptaerekq ylinsqccsi cqpgqklvsd cteftetecl
- 61 pageselldt wnrethahah kycdpnigir vankgtsetd tiotoeegwh olseacesev
- 121 lhrscspgfg vkqiatgysd ticepopygf fenvesafek chpwtrspgs acspgglphh
- 181 irdpvohpig aglyqkggge and

## FIGURE 4C

## Coding sequence for long isoform of human CD40:

- l atesttoglo tecctotes gigostocic teggestest tectescos tetocalcos
- 61 gaaccaccca etgeatyeng nyaaaaaacay tacetaataa acagleagiy eigiteitiy
- 121 tyccayccup gacayaaaci ygtgayiyac tyoacagayi tcacigaaac gynnigccii
- 181 cettecetie nasgehaat cetagacace tegancagas agacacacis ceaccagoac
- 241 anntactuce acconnect uggettogg etceagoaga aggeoactic aganicagae
- 301 acculctura ociulganga aggolugeae igiaogagig aggoelgiga gugotutul
- 361 otgoacogot caluctouce eggettigge gteaageaga ttgetacage ggilielgat
- 421 accalcinged agenciacce agleggette tecteonalg intentetge ittogramma
- 481 tgreaccett genengete tgagnecass gueetggttg tgesacagge aggeacasae
- 541 auguotgaty ilgiotylyg tooccuggat cygotgayay coctygiggt gatoocoato
- 601 atclicagga icetgitigo catecicite etgoigetoi liatoaaaaa eetgeecaag
- бб1 зацисалска праводось ссиссения ониданское направления инисседае
- 721 gulottecty gotocamone tyetyeteen ytgengguga etttaenigg atgeonneeg
- 781 gleacecuya aggulgacha ugagagteyo atotenglee aggugagaca gtga

#### FIGURE 4D

#### Encoded long isoform of human CD40:

- I myrlplqcvl wgciltavhp epptacrekq ylinaqccsl cqpgqklysd cteffeteol
- 61 pagesafidt wnrothchah kycdpnigir vaakgtsetd tiotooogwh etseseesev
- 121 lhrscspgfg vkqiatgvsd ticepopvgf fanvasafek chpwtscetk dlvvqqagtn
- 181 kidvvegpad riralvvipi ifgilfaill vivfikkvak kptnkaphpk gepacinfpd
- 241 dlpgsntaap vqetlhgcqp vtqcdgkesr isvqcrq

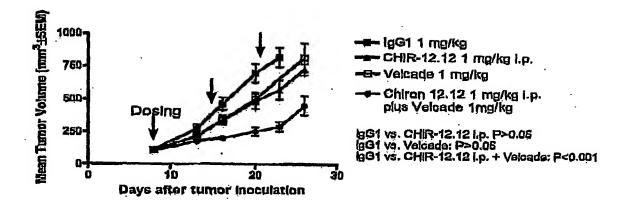


FIGURE 5

FIGURE 6

